

ABSTRACT

A cartilage and bone morphogenetic repairing material which contains a bone morphogenetic protein and a polyoxyethylene-polyoxypropylene glycol. In particular, it is preferable that a molecular weight of a polypropylene glycol, i.e., a component of said polyoxyethylene-polyoxypropylene glycol, being in the range of about 1,500-4,000 and a weight ratio of ethylene oxide being in the range of 40-80%/molecule, and a concentration of said polyoxyethylene-polyoxypropylene glycol in an aqueous solution being about 10-50%.

It may be applied in a cartilage and bone morphogenetic method requiring no surgical operation and which comprises a bone morphogenetic protein and a carrier having a high bio-absorption, a good affinity to the bone morphogenetic protein and capable of temperature dependent gel-sol reversible transition. It is convenient to apply locally to the site of bone fracture or bone defect with efficient treatment effect.